



VISICON INC.

BOX 1008 • STATE COLLEGE, PENNSYLVANIA 16801 / 814 237-6521

The information which you requested on our line of graphic data digitizing equipment and systems is enclosed. These devices are designed for the high speed, fully AUTOMATIC digitization of graphic information including drawings, charts, graphs, maps, and photographs into digital information for storage, display, transmission, computer processing, and later hardcopy reconstruction.

The automatic digitizing system, combining hardware and software, provides the first truly low-cost method of reliably and AUTOMATICALLY converting graphic information. Requiring only seconds to fully digitize an 11" x 17" document, it provides an extremely fast method of graphic data entry.

The hardware systems can be operated either off-line or on-line. The off-line system uses digital magnetic tape recording as a storage medium. The on-line system can be interfaced directly to a variety of computers and computer systems. Either system can use a visual display monitor and a number of other options. These systems provide the high speed digitization capability which has not been available before.

The software package is general in nature and is noted for the ease of making additions to it. It converts raster data into lineal or point vector information which can be used for interactive work and/or for digital plotting. This capability has not been available until now. As you can see, this now allows a wide range of applications including computer-aided design, some numerically controlled machine tooling, quality control, fast data transmission, and everyday fast input to a computer.

Because of the large number of applications for this system, there is probably one that will suit your need or present a solution to your problem. Won't you please complete and return the enclosed reply card or call us directly.

Cordially,

Patrick Q. Fennessy
Sales Manager

PQF/plz
Enclosure



GC-3 DIGITIZER

N71



AUTOMATIC GRAPHIC DATA DIGITIZER

CONVERTS...

- CHARTS
 - MAPS
 - GRAPHS
 - PHOTOGRAPHIC DATA
 - GRAPHIC DATA
- TO DIGITAL DATA IN
SECONDS

AUTOMATICALLY digitize graphs, charts, maps, photographic data or practically any other graphic material in seconds. Visicon's Graphic Conversion Terminal, the GC-3, gives the user a new dimension in graphic digitizing.

Now graphic material is scanned AUTOMATICALLY and digitized in computer compatible format for entry into practically any computer or digital entry device. The flexibility of the Visicon GC-3 terminal allows it to be interfaced to computers (ranging from mini to maxi), synchronous tape transports and specialized data systems.

Indispensable for the digitizing of large volumes of graphic data or where speed is essential and reliability is a must. The GC-3 is a fast, accurate, compact and inexpensive terminal for the conversion of graphic data to digital data either for data processing or transmission.



VISICON

SPECIFICATIONS

MECHANICAL

DOCUMENT SIZE	11 inches in Y x 17 inches in X maximum
SCAN AREA	10 5/8 inches in Y x 16 3/4 inches in X maximum
RESOLUTION, SAMPLES PER INCH (SPI)	50, 100, or 200 SPI in X 50, 100, or 200 SPI in Y X and Y sampling rate independently selectable scan spot size 0.010 diameter
SCAN TIME, LONGITUDINAL AXIS	29 seconds at 50 SPI in X 58 seconds at 100 SPI in X 116 seconds at 200 SPI in X (independent of Y samples per inch)

ELECTRICAL

DIGITAL OUTPUTS (DTL and TTL Compatible)

STANDARD RASTER

Y AXIS DATA	1 pulse/.020 inch of drum circumference at 50 SPI 1 pulse/.010 inch of drum circumference at 100 SPI 1 pulse/.005 inch of drum circumference at 200 SPI (Logic "1" for black, Logic "0" for white)
X AXIS CLOCK	1 pulse/.020 inch along drum axis at 50 SPI 1 pulse/.010 inch along drum axis at 100 SPI 1 pulse/.005 inch along drum axis at 200 SPI

FORMATTED RASTER

16 BITS	Y axis data 15 bits, X axis clock 1 bit
8 BITS	Y axis data 7 bits, X axis clock 1 bit

PHYSICAL

WEIGHT	70 pounds
CABINET SIZE	8 inches high x 17 3/4 inches wide x 30 inches long
POWER REQUIREMENTS	300 watts, 110 volts, 50 or 60 Hz

OPERATION

The Visicon GC-3 uses a raster scan type of optical/electronic digitizing. The raster outputs are converted in a video to digital converter to a serial bit stream. Formatting of this digital output is accomplished in a format converter contained in the digital section of the GC-3.

Both dimensions ("X" and "Y") of the area to be digitized are preset with adjustable magnetic and optical limit switches. The graphic data is placed on the scanning drum, the threshold level and digitizing area limits set, and the start scan push button initiated. The GC-3 automatically scans and digitizes the information. At "end of scan" the optical head returns to START position.

SOFTWARE

Various software packages to manipulate the digital data generated by the GC-3 Graphic Conversion Terminal are available. All software is in ASA Basic Fortran (Fortran II), and is compatible with a wide range of computers including IBM 360.

VISICON, INC. ALSO PRODUCES COMPLETE AUTOMATIC GRAPHIC DATA DIGITIZING SYSTEMS. SEE BULLETIN AD-1.



VISICON INC.

BOX 1008 · STATE COLLEGE, PENNSYLVANIA 16801 / 814 237-6521

Name _____ Title _____
Company _____ Phone ()- - Ext. _____
Address _____
Street _____ Mail Station _____
City _____ State _____ Zip _____

- Application
 - Computer Input
 - Graphic Data Transmission

- Size of Data
 - Less than 11" x 17"
 - Less than 11" x 25"
 - Less than 36" x 72"
 - Greater than 36" x 72"

State size _____

- Central Processor Type _____

- Type of Data
 - Oscillographs
 - Drawings
 - IC Masks
 - Photographs
 - PC Board Art

- — I have a present requirement.
- — I will have a requirement within six months.
- — For file only.

First Class
Permit No. 315
State College, Pa.

BUSINESS REPLY CARD

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

Postage Will Be Paid By

VISICON, Inc.

P.O. Box 1008

State College, Pennsylvania 16801